

### **Remarks**

The above Amendments and these Remarks are in reply to the Office Action mailed July 5, 2007. Claims 1-21 were pending in the Application prior to the outstanding Office Action. In the Office Action, the Examiner rejected claims 1-21. The present Response cancels claims 13 and 21, amends claims 1 and 8 and adds new claims 22 and 23, leaving for the Examiner's present consideration claims 1-12, 14-20, 22 and 23. Reconsideration of the rejections is requested.

### **Objection to the Abstract**

In the Office Action, the Examiner objects to the Abstract writing that "it should avoid phrases which can be implied, such as 'is disclosed'." Applicant has amended the Abstract to strike the phrase "is disclosed." Applicant respectfully requests that the objection be withdrawn.

### **Objection to the Specification**

In the Office Action, the Examiner objects to the disclosure writing that "In the description of the drawings, remove the type of figure description." Applicant has amended paragraph [0012] above to strike the "type of figure" description. Applicant respectfully requests that the objection be withdrawn.

### **Objection to the Claims**

The Examiner objects to claim 1 due to informalities, writing that "Claim 1, line 8 'adapted output' should read -adapted to output--." Applicant has amended claim 1 as suggested by the Examiner. Applicant respectfully requests that the objection be withdrawn.

### **Claim Rejections under 35 USC §102.**

Claims 1 -21 stand rejected under 35 U.S.C. 102(b) as being anticipated by *Bloemers* (U.S. Patent No. 4,480,605). Applicant requests cancellation of claims 13 and 21. Applicant respectfully traverses the rejection of claims 1-12 and 14-20.

#### **1. Claim 1**

The Examiner writes that "Bloemers shows the claimed invention including a pulley (14) which is attached to a spring (25) which has a cap (38), the pulley has a rope (24) which is wound around a groove in the pulley (not labeled, but clearly seen that the rope wraps around the pulley), such that when the rope is pulled, the spring is tensioned and when released, the spring exerts a force on the rope and subsequently the handle (not labeled, but clearly can be found at the end of the cable)." See OA, page 3.

However, *Bloemers* fails to anticipate all of the limitations recited in claim 1. Claim 1 recites "an input groove; an output groove; said input groove operably coupled to said output groove; an input cable secured to

said input groove; an output cable secured to said output groove; **said input cable adapted to be secured to a source of force**; and said output cable adapted to output a constant force” (Emphasis added). Referring to FIGS. 3a-4 of the present application, for example only to more clearly discuss the limitations, an input cable (9) is shown secured to a spring (12) which acts as a source of force. The input cable transfers the force to the output cable (10) by way of the input pulley (1) and output pulley (2).

*Bloemers* discloses an output cable 24 connected with a starter pulley 14 (which presumably has a groove). However, *Bloemers* fails to disclose an input cable adapted to be secured to a source of force. *Bloemers* teaches a recoil spring 15 held within a spring retainer 28 and applying recoil force between a post 20 of the housing 13 and a starter pulley 30. However, the recoil spring 15 applies force directly to the pulley, rather than to an input cable. The starter pulley 14 transfers the force directly to the output cable 24. Nowhere does *Bloemers* teach or suggest an input cable adapted to a source of force. Because *Bloemers* fails to disclose all of the limitations of claim 1, *Bloemers* cannot anticipate claim 1 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claim 1.

## 2. Claim 2

Claim 2 stands rejected on the same basis as claim 1. However, nowhere does *Bloemers* disclose a mechanism “wherein said input groove spirals outwardly in a direction that is opposite to a direction that said output groove spirals outwardly” as recited in claim 2. Referring to Figure 8 of the present application, for example only to more clearly discuss the limitations, an input pulley 21 and an output pulley 22 are shown joinable via a hub 25 and retainer rings 6 so that “said input groove [is] operably coupled to said output groove.” As can be seen, the groove of each pulley spirals outwardly in a direction that is opposite to a direction of the other groove.

In contrast, in FIGS. 1-3, *Bloemers* only shows a starter pulley 14 having a single non-spiraling groove around which the output cable 24 is wrapped. Because *Bloemers* fails to disclose all of the limitations of claim 2, *Bloemers* cannot anticipate claim 2 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claim 2.

## 3. Claim 3

Claim 3 stands rejected on the same basis as claim 1. However, nowhere does *Bloemers* disclose a mechanism “wherein said input groove and said output groove are positioned back-to-back” as recited in claim 3. Referring to Figure 8 of the present application, for example only to more clearly discuss the limitations, an input pulley 21 and an output pulley 22 are shown joinable via a hub 25 and retainer rings 6 so that “said input groove [is] operably coupled to said output groove.” As can be seen, the input groove and output groove are positioned back-to-back.

In contrast, in FIGS. 1-3, *Bloemers* only shows a starter pulley 14 having a single groove around which the output cable 24 is wrapped. Because *Bloemers* fails to disclose all of the limitations of claim 3, *Bloemers* cannot anticipate claim 3 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claim 3.

4. Claims 4 and 7

Claim 4 stands rejected on the same basis as claim 1. However, nowhere does *Bloemers* disclose a mechanism “wherein said input groove spirals outwardly with an ever increasing radius and the output groove spirals outwardly with an ever increasing radius” as recited in claim 4 or a mechanism “wherein said input groove spirals outwardly, in a manner such that said output cable produces a constant output force” as recited in claim 7. Referring to Figure 8 of the present application, for example only to more clearly discuss the limitations, an input pulley 21 and an output pulley 22 are shown joinable via a hub 25 and retainer rings 6 so that “said input groove [is] operably coupled to said output groove.” As can be seen, the input groove and output groove spiral outwardly with ever increasing radius.

In contrast, in FIGS. 1-3, *Bloemers* only shows a starter pulley 14 having a single, non-spiraling groove around which the output cable 24 is wrapped. Because *Bloemers* fails to disclose all of the limitations of claims 4 and 7 *Bloemers* cannot anticipate claims 4 and 7 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claims 4 and 7.

5. Claims 5 and 6

Claims 5 and 6 stand rejected on the same basis as claim 1. However, claims 5 and 6 are allowable at least for the reasons given for allowance of claim 1. Because *Bloemers* fails to disclose all of the limitations of claims 5 and 6, *Bloemers* cannot anticipate claims 5 and 6 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claims 5 and 6.

6. Claim 8

Claim 8 stands rejected on the same basis as claim 1. However, nowhere does *Bloemers* disclose a mechanism “in combination with a linear extension spring to provide a source of force” as recited in claim 8. Referring to FIGS. 3a-4 of the present application, for example only to more clearly discuss the limitations, an input cable (9) is shown secured to a spring (12) which acts as a source of force. The input cable transfers the force to the output cable (10) by way of the input pulley (1) and output pulley (2).

*Bloemers* discloses two compression springs 25,40 and a coil spring 15, but fails to disclose an extension spring, as recited in claim 8. Because *Bloemers* fails to disclose all of the limitations of claim 8, *Bloemers* cannot anticipate claim 8 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claim 8.

7. Claims 9-13

Claims 9-13 stand rejected on the same basis as claim 1. However, claims 9-13 are allowable at least for any of the reasons given for allowance of claims 1, 2, and 4-7. Because *Bloemers* fails to disclose all of the limitations of claims 9-13, *Bloemers* cannot anticipate claims 9-13 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claims 9-13.

8. Claims 14-16

Claims 14-16 stand rejected on the same basis as claim 1. However, nowhere does *Bloemers* disclose a mechanism “wherein said input groove spirals outwardly in a counter-clockwise manner and said output groove spirals outwardly in a clockwise manner and said input groove is operably coupled to a back of said output groove” as recited in claim 14. Referring to Figure 8 of the present application, for example only to more clearly discuss the limitations, an input pulley 21 and an output pulley 22 are shown joinable via a hub 25 and retainer rings 6 so that “said input groove is operably coupled to a back of said output groove.” As can be seen, said input groove spirals outwardly in a counter-clockwise manner and said output groove spirals outwardly in a clockwise manner.

In contrast, in FIGS. 1-3, *Bloemers* only shows a starter pulley 14 having a single non-spiraling groove around which the output cable 24 is wrapped. Because *Bloemers* fails to disclose all of the limitations of claims 14-16, *Bloemers* cannot anticipate claims 14-16 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claims 14-16.

9. Claim 17-20

Claims 17-20 stand rejected on the same basis as claim 1. However, nowhere does *Bloemers* disclose a spring end plug comprising a plug “adapted to be mounted onto a spring with said thread adapted to be screwed on to the spring.” As recited in claim 17. Referring to Figure 6 of the present application, for example only to more clearly discuss the limitations, an end plug 13 is shown in an exploded view with an extension spring 12. As can be seen, the end plug has a helical groove 17 that allows the end plug to be threaded along the spring 12 by way of the coils of the spring received within the groove.

In contrast, in FIGS. 1-3, the Examiner writes that the pulley 14 has a cap 38. If reference number 38 (described as a disk) is a cap, it includes arms 37 that are inserted into slots 39 in a drive plate 16. The disk 38 cannot be “screwed on to the spring” as recited in claim 17. On the contrary, the disk 38 is held against the spring in compression by a rim 41 of a screw 26. Because *Bloemers* fails to disclose all of the limitations of claims 17-20, *Bloemers* cannot anticipate claims 17-20 under 35 U.S.C. 102(b). Applicant therefore respectfully requests withdrawal of the rejection of claims 17-20.

### **Additional Claims**

Newly added claims 22 and 23, it is submitted, are allowable at least for the reasons given for the allowability of claim 1.

### **Conclusion**

In light of the above, it is respectfully submitted that all of the claims now pending in the subject patent application should be allowable, and a Notice of Allowance is requested. The Examiner is respectfully requested to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

No fees are believed to be due; however, if fees are found to be due, the Commissioner is authorized to charge any underpayment or to credit any overpayment to Deposit Account No. 06-1325 for any matter in connection with this response, including any fee for extension of time, which may be required.

Respectfully submitted,

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